

AMENDED SPECIFICATION TEXT  
INCORPORATING AMENDMENTS  
IN RESPONSE TO OFFICE ACTION DATED June 17, 2004  
FOR SERIAL NO. 10/685,214

1. The Paragraph starting with the line "Detailed Description of the Invention" on Page 4 of Applicant's original specification should read as follows:

Detailed Description of the Invention

The present invention is a moldable and castable material, thereby making it ideal as a refractory. The refractory formulation is comprised of an alkali metal or alkali earth metal phosphate, preferably  $\text{KH}_2\text{PO}_4$ , a metal oxide (or hydroxide), preferably  $\text{MgO}$ , and a calcium containing compound like tricalcium phosphate,  $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$ ,  $\text{Ca SiO}_3$ , or combinations thereof. ~~Preferably an alkali earth metal phosphate.~~ The ratio between the metal phosphate (i.e.  $\text{KH}_2\text{PO}_4$ ) and the metal oxide (i.e.  $\text{MgO}$ ) being between 2:0.5 and 1:1.

2. The Paragraph starting with the line "Formulation II\*" on Page 5 of Applicant's original specification should read as follows:

Formulation II\*

|   |            |
|---|------------|
| Potassium phosphate (technical grade-30 microns)                                    | 61 percent |
| Magnesium Oxide (technical grade-30 microns)  | 31 percent |
| Tricalcium Phosphate <u><math>\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2</math></u> | 8 percent  |